



CLAY PRODUCTS

GLADDING
• McBEAN •
& CO.

Price List No. 50

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WORKS: GLADDOG, McBEAN & Co., LINCOLN, PLACER COUNTY, CALIFORNIA
Lincoln is on the Southern Pacific Railroad and the Northern California State Highway,
twenty-seven miles northeast of Sacramento.

GLADDING, McBEAN & Co.

CLAY PRODUCTS



PRICE LIST NO. 50

Revised June 1, 1923

SAN FRANCISCO, LOS ANGELES AND
OAKLAND, CALIFORNIA
WORKS AT LINCOLN, CALIFORNIA

GLADDING, McBEAN & CO.

FOUNDED 1875

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Twenty-second and Market Streets

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TERRA-COTTA

VITRIFIED SALT GLAZED PIPE

for sewage, drainage and irrigation

FIRE-CLAY CHIMNEY PIPE AND TOPS

HOLLOW TILE

for fireproofing and building purposes

ROOFING TILE AND FACE BRICK

Brick and Tile Mantels, Enameled Terra-Cotta,
Garden Pottery, Laundry Trays, Kitchen Sinks, Flue Linings,
Gas Flues, Conduit Pipe, Culvert Pipe,
Drain Tile, Grease Traps, Flush Tanks, Fire Brick,
Fire Tile, Fire Clay, Fire Brick Dust

...

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FOREWORD

THIS booklet is the result of an earnest desire on our part to place in the hands of our customers concise information relative to our many products, and we trust it will be of sufficient value to make it worth retaining for reference.

Since our last Price List No. 45 was issued, in 1915, there naturally have been many changes in standard building requirements and market demands, necessitating the discontinuance of some products, the addition of many, and the revision in size and design of still others. Therefore, we present this new Price List No. 50, in the hope that it will prove of real service to all those interested in Clay Products.

The steady growth which our business has experienced during nearly fifty years' service to the trade is due, we believe, to our constant endeavor to use only the very best of materials in our products, to maintain the highest of manufacturing standards, and to give a little more than the required degree of service to our customers. By continuance of this policy, we hope to merit in the future, as in the past, the good-will of our friends and to retain the standing which our Company has attained in the field of Clay Products.

Gladding, McBean & Co. have recently acquired control of Tropico Potteries, situated in Los Angeles, California, and in operating this well-equipped clay-products plant, we feel we are in a better position than ever to serve the needs of our old and new friends.

GLADDING, McBEAN & Co.

VITRIFIED SALT GLAZED PIPE

Pacific Coast Price List Effective September 15, 1920

STANDARD-STRENGTH PIPE

Diameter Inside Inches	Price per Foot	Branch 2 Ft. Long Each	Branch 2½ Ft. Long Each	Double Branch 2 Ft. Long Each	¼ Curves and Elbows Each	½ Curves Reducers Increases Slants Each	Hand Hole also P. & S. Traps Each	Gutter Pipe per Foot
3	\$0.20	\$0.80	.....	\$1.20	\$0.80	\$0.80	\$2.00	\$0.12
4	.25	1.00	.....	1.50	1.00	1.00	2.50	.15
5	.30	1.20	.....	1.80	1.20	1.20	3.00	.18
6	.35	1.40	.....	2.10	1.40	1.40	3.50	.21
8	.50	2.00	.....	Not made above 6-inch	2.00	2.00	6.00	.30
10	.70	2.80	.....		2.80	2.80	8.40	.42
12	.90	3.60	.....		3.60	3.60	P. & S. traps	.54
14	1.10	4.40	.....		4.40	4.40	not made above 6-inch	.66
*16	1.40	5.60	\$6.30		11.20	5.60		.84
*18	1.70	6.80	7.65		13.60	6.80		1.02
*20	2.00	8.00	9.00		16.00	8.00		1.20
*22	2.65	10.60	11.90		21.20	10.60		1.59
*24	3.00	12.00	13.50		24.00	12.00		1.80

*Owing to decreased demand we have discontinued making 16-, 18-, 20-, 22- and 24-inch Standard Strength Pipe. However, we shall be glad to quote discounts on any of these sizes which we may have in stock, or will manufacture on order.

DOUBLE-STRENGTH PIPE

Diameter Inside Inches	Price per Foot	Branches 2½ Ft. Long Each	¼ Curves and Elbows Each	½ Curves Reducers Increases Each	Gutter Pipe per Foot
15	\$1.50	\$ 6.75	\$12.00	\$ 6.00	\$0.90
18	2.10	9.45	16.80	8.40	1.26
21	2.80	12.60	22.40	11.20	1.68
24	3.60	16.20	28.80	14.40	2.16
27	5.00	22.50	40.00	20.00	3.00
30	6.00	27.00	48.00	24.00	3.60

For branches with Y or T inlets 15 inches and larger add 50% to list prices of branches.

STOPPERS—Price of one-third-foot pipe same diameter. Subject to same discount as Vitrified Pipe.

Three- to 6-inch pipe are made in 2-foot, the 8- to 30-inch in 2½-foot lengths. For dimensions, weights and feet to carloads, see page 10.

40% off F.O.B. Total

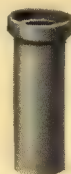
VITRIFIED SALT GLAZED PIPE

Standard Shapes

T Branch



Y Branch

Double
T BranchDouble
Y Branch

Socket Pipe



Gutter Pipe



Slant



Increaser



Reducer

 $\frac{1}{4}$ or 90°
Elbow $\frac{1}{4}$ or 90°
Curve $\frac{1}{6}$ or 60°
Curve $\frac{1}{8}$ or 45°
Curve

Hand Hole Trap



S Trap



P Trap

For dimensions, weights and feet to carloads, see page 10.

VITRIFIED SALT GLAZED PIPE

Approximate Weights and Dimensions

STANDARD-STRENGTH PIPE

Diameter Inside Inches	Weight per Foot Pounds	*Feet 15-Ton Carload	Length Feet	Thick- ness Inches	Depth Socket Inches	Annular Space Inches	Area Square Inches
3	6	5000	2	$\frac{1}{2}$	$1\frac{1}{2}$	$\frac{1}{4}$	7
4	8	3800	2	$\frac{5}{16}$	$1\frac{1}{2}$	$\frac{3}{8}$	$12\frac{1}{2}$
5	12	2500	2	$\frac{5}{8}$	$1\frac{3}{4}$	$\frac{3}{8}$	$19\frac{1}{2}$
✓ 6	16	1900	2	$\frac{5}{8}$	2	$\frac{3}{8}$	$28\frac{1}{4}$
8	22	1370	$2\frac{1}{2}$	$\frac{3}{4}$	$2\frac{1}{4}$	$\frac{3}{8}$	$50\frac{1}{4}$
10	31	970	$2\frac{1}{2}$	$\frac{7}{8}$	$2\frac{1}{2}$	$\frac{3}{8}$	$78\frac{1}{2}$
12	41	735	$2\frac{1}{2}$	1	$2\frac{1}{2}$	$\frac{1}{2}$	113
14	50	600	$2\frac{1}{2}$	1	$2\frac{1}{2}$	$\frac{1}{2}$	154
16	63	480	$2\frac{1}{2}$	$1\frac{1}{8}$	$2\frac{1}{2}$	$\frac{1}{2}$	201
18	80	375	$2\frac{1}{2}$	$1\frac{1}{4}$	$2\frac{3}{4}$	$\frac{1}{2}$	254
20	93	325	$2\frac{1}{2}$	$1\frac{3}{8}$	3	$\frac{1}{2}$	314
22	125	240	$2\frac{1}{2}$	$1\frac{1}{2}$	3	$\frac{1}{2}$	380
24	142	215	$2\frac{1}{2}$	$1\frac{5}{8}$	$3\frac{1}{4}$	$\frac{1}{2}$	452

DOUBLE-STRENGTH PIPE

The thickness of double-strength pipe is one-twelfth its diameter.

Diameter Inside Inches	Weight per Foot Pounds	*Feet 15-Ton Carload	Length Feet	Thick- ness Inches	Depth Socket Inches	Annular Space Inches	Area Square Inches
15	65	465	$2\frac{1}{2}$	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{1}{2}$	177
18	100	300	$2\frac{1}{2}$	$1\frac{1}{2}$	3	$\frac{1}{2}$	254
21	128	235	$2\frac{1}{2}$	$1\frac{3}{4}$	3	$\frac{1}{2}$	346
24	165	185	$2\frac{1}{2}$	2	3	$\frac{1}{2}$	452
27	225	135	$2\frac{1}{2}$	$2\frac{1}{4}$	$3\frac{1}{2}$	$\frac{3}{4}$	573
30	265	115	$2\frac{1}{2}$	$2\frac{1}{2}$	$3\frac{1}{2}$	$\frac{3}{4}$	707

*MIXED MINIMUM CARLOADS

Unless the minimum carload weights are revised the following applies:

Vitrified Salt Glazed Pipe, Fire Clay Chimney Pipe and Drain Tile can be shipped under Class "E" in mixed minimum carloads of 13 tons; or, Vitrified Salt Glazed Pipe of 18 to 30 inches diameter in minimum straight carloads of 10 tons.

SECOND QUALITY VITRIFIED SALT GLAZED PIPE

In the manufacture of Vitrified Pipe some pieces are liable either to be slightly fire-cracked, warped or may have defective sockets. Owing to either of these defects, this quality is not recommended for sanitary sewers, although it is suitable and extensively used in

*Draining overflowed lands,
Culverts under highways and railroads,
Curbing and linings for wells,
Carrying water on a gravity line,*

or for any purpose where the internal pressure is not excessive.

Vitrified Pipe—even second quality—when properly set in place, will last for ages without repairs. Owing to its smooth, glazed surface, it has a greater carrying capacity than any other type of pipe. The flow of water through it is not retarded by corrugations which are liable to catch and hold filth during the California long dry season. If desired, we will furnish plans showing an economical construction for permanent pipe culverts under streets or highways.

Carload shipments are loaded so securely there is little or no breakage in transit.

For list prices, standard shapes, dimensions, weights, feet to carloads, capacity and directions for laying, see pages 8 to 12.

When writing for discounts, please give size and quantity required.

DIRECTIONS FOR LAYING VITRIFIED SALT GLAZED PIPE

EXCAVATION: Commence at the lower end or outlet and grade the trench on a uniform inclination throughout its length, cutting out special grooves for the sockets, so the pipe when laid will have a firm bearing on the solid ground.

LAYING PIPE: Commence laying the pipe at the outlet, with the sockets facing up-grade.

CEMENT MORTAR: Completely fill the annular space between the spigot and socket ends of the pipe with freshly-mixed mortar composed of one part hydraulic cement to two parts clean, sharp sand, free from gravel, loam or soil.

CLEANING PIPE: When each length has been permanently set in place, clean out the projecting mortar so as to leave a smooth interior surface.

FILLING TRENCH: When the trench is being filled, tamp the loose earth solidly around both sides as well as on top of the pipe for at least one foot above it, thoroughly puddling the remainder so as to render the settlement of the surface practically impossible.

QUALITY: Vitrified Salt Glazed Pipe is everlasting when properly laid; therefore, the best materials and workmanship should be used in connection with it.

CARRYING CAPACITY VITRIFIED SALT GLAZED PIPE

IN GALLONS PER MINUTE

Size of Pipe	1-Inch Fall 100 Ft.	2-Inch Fall 100 Ft.	3-Inch Fall 100 Ft.	6-Inch Fall 100 Ft.	9-Inch Fall 100 Ft.	12-Inch Fall 100 Ft.	24-Inch Fall 100 Ft.	36-Inch Fall 100 Ft.
3 inch	13	19	23	32	40	46	64	70
4 inch	27	38	47	66	81	93	131	163
5 inch	46	64	85	124	142	186	258	348
6 inch	75	105	129	183	224	258	364	450
8 inch	153	216	265	375	460	527	750	923
10 inch	267	378	463	755	803	926	1310	1613
12 inch	422	596	730	1033	1273	1468	2076	2554
14 inch	634	846	1098	1555	1907	2132	3202	3828
15 inch	740	1021	1282	1818	2224	2464	3617	4467
16 inch	986	1361	1709	2424	2965	3285	4822	5956
18 inch	1161	1651	2022	2860	3508	4045	5704	7047
20 inch	1560	2054	2450	3450	4180	4860	6850	8410
21 inch	1699	2399	2940	4157	5100	5880	8261	10416
22 inch	1924	2718	3335	4657	5788	6684	9447	11577
24 inch	2396	3387	4152	5874	7202	8303	11744	14466
27 inch	4407	6211	7674	10883	13257	15344	21771	26622
30 inch	5906	8352	10223	14298	17714	20204	28129	35513

When the area to be drained and the fall per hundred feet are known, the size of pipe required can be easily ascertained by referring to the above table.

Statistics show the maximum rainfall to be about one inch per hour, except during very heavy and uncommon storms. One-inch rainfall per hour gives 27,154 gallons per hour for each acre, or 452½ gallons per minute per acre.

Experience shows that owing to various obstructions, not over 50 or 75 per cent of the rain falling will reach the drain within the same hour.

GREASE TRAPS



Diameter of
inlets and outlets,
4 inches

Number	Price	Diameter Inside Inches	Depth Inside Inches	Capacity to Outlet Gallons	Weight Pounds
1	\$5.00	11	13	3	47
2	7.50	16	18	7½	80

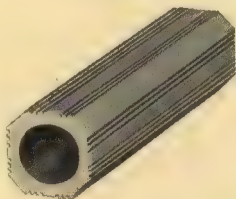
Crates and packing extra.

PERMANENT CULVERTS

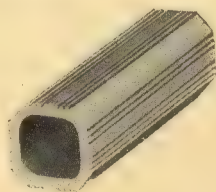


It is practicable and safe to lay 8-inch to 18-inch Vitrified Pipe Culverts within 6 inches of the surface, if covered with 4 inches of concrete, or a covering of firm earth mixed with gravel or finely-broken rock equal in depth to the diameter of pipe used, can be substituted for the concrete. In places where the depth beneath the roadway permits, it will be safe to lay in firm ground any size *Vitrified Pipe* with an earth covering twice its diameter, or equally as safe if laid *twenty or more feet beneath the surface*. In either case the covering material must be thoroughly tamped on both sides and over the pipe.

VITRIFIED SALT GLAZED CONDUIT PIPE



3 1/2-inch and 4-inch Round Duct



4-inch Square Duct

Both sizes are made in 18-inch lengths.

We usually carry some of these in stock and can fill large orders within a reasonable time. In asking for quotations, please give quantity required, also place of delivery.

DRAIN TILE

For Land Drainage or Sub-Irrigation



Straight Tile



T



Y



Reducer



Curve

PRICE LIST

Diameter Inside Inches	Tile 1000 Feet	Branches 1 Ft. Long Each	Branches 2 Ft. Long Each	Curves Reducers Each	Length in Feet	Weight foot Pounds	Feet 15-ton Carload
3	\$ 80.00	\$.50	....	\$0.50	1	5	6000
4	90.00	.60	....	.60	1	7	4300
5	115.00	.70	....	.70	1	9	3350
6	150.00	....	\$1.00	1.00	2	11½	2610
8	250.00	....	1.25	1.25	2	19½	1540
10	350.00	....	1.50	1.50	2	27	1120
12	450.00	....	2.00	2.00	2	34	884
14	600.00	....	2.50	2.50	2	44	684
16	700.00	....	3.00	3.00	2	54	556

For mixed minimum carloads, see foot-note on page 10

CAPACITY OF DRAIN TILE

The following table may be found convenient for reference by those who are considering the subject of land drainage.

Number of acres which tiles of the following sizes and inclinations will drain:

Inclination	3-Inch Tile	4-Inch Tile	5-Inch Tile	6-Inch Tile	8-Inch Tile	10-Inch Tile	12-Inch Tile
1 ft. in 50	8.4	17.0	30.4	47.7	98.0	170.4	269.0
1 ft. in 100	5.7	11.9	21.2	33.1	69.2	120.6	190.5
1 ft. in 150	4.5	9.5	19.2	26.6	56.0	97.3	154.4
1 ft. in 200	3.9	8.2	15.2	22.8	48.0	83.9	132.5
1 ft. in 250	3.5	7.5	13.4	20.4	42.4	74.4	117.0
1 ft. in 300	...	6.9	12.3	18.4	38.2	65.5	107.0
1 ft. in 400	...	5.9	10.6	16.5	34.6	60.3	90.7
1 ft. in 500	...	5.2	9.6	14.8	30.1	54.0	81.6
1 ft. in 600	...	4.8	9.0	13.3	28.0	48.6	74.0
1 ft. in 800	...	4.1	7.6	11.4	24.0	41.9	65.0
1 ft. in 1,000	...	...	6.7	10.2	21.2	37.2	56.0

One acre (43,560 square feet), covered with water one-half inch in depth, is equivalent to 1,815 cubic feet, or 13,577 gallons of 231 cubic inches. The capacity of the tile can be expressed in cubic feet or gallons by multiplying the number of acres drained by either 1,815 or 13,577.

If you are interested in land drainage, you should procure copies of *Practical Farm Drainage*, also *Engineering for Land Drainage*, by Charles Gleason Elliott. If requested, we will mail you free booklets, *Tile Underdrainage*, and *Drain the Wet Land*.

AUTOMATIC FLUSH-TANK SIPHONS

DIRECTIONS FOR SETTING

The Siphon must be set in a vertical position both ways and carefully embedded in concrete up to the bottom of the tank. It is absolutely necessary that the trap of siphon be filled with water before using. In building the tank great care should be taken to make it absolutely watertight by being thoroughly plastered both inside and out with the best hydraulic cement mortar. The water-feed pipe should be brought into the tank at sufficient depth below the ground to keep it from freezing, and it should be turned up free of the wall inside the tank.

Use I X L Regulators for automatically as well as economically controlling the consumption and flow of water under a fixed pressure.

Tanks must be provided with tight-fitting non-perforated covers, and be connected above the high-water line with a vent pipe leading from the sewer.

Details for erection will be furnished upon application.

MILLER AUTOMATIC SIPHONS

Standard Design

This type of Siphon is designed for sewer depths of 5 feet and upwards.

PRICE LIST

Diameter Siphon Inches	Diameter Pipe Inches	Diameter and Capacity Tanks			Siphon's Average Discharge in Cubic Ft. per Second	Price F. O. B. Pacific Coast Terminals
		Diameter Feet	Discharging Depth Inches	Discharging Capacity Cubic Ft.		
5	6-8	4	23	25	.73	\$45.00
6	8-10	4½	30	40	1.06	55.00
8	12-15	5	35	60	2.12	85.00

Average weights: 5-inch, 180 lbs.; 6-inch, 275 lbs.; 8-inch, 500 lbs.

RHODS-MILLER AUTOMATIC SIPHONS

Special Design for Shallow Depths

This type of Siphon is designed for sewer depths varying from 3¼ to 5 feet.

PRICE LIST

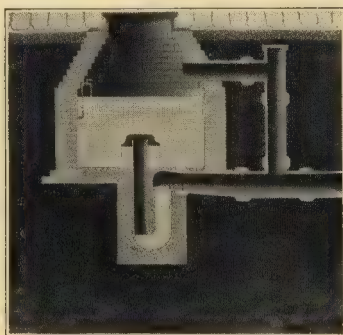
Diameter Siphon Inches	Diameter Pipe Inches	Diameter and Capacity Tanks			Siphon's Average Discharge in Cubic Ft. per Second	Price F. O. B. Pacific Coast Terminals
		Diameter Feet	Discharging Depth Inches	Discharging Capacity Cubic Ft.		
5	6-8	4	16	17	.55	\$45.00
6	8-10	4½	19	25	.90	55.00

See illustration on the following page.

MILLER AUTOMATIC SIPHON

Standard Design

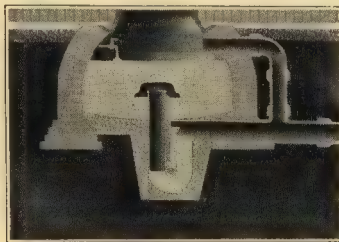
No Moving Parts. No Small Pipes



RHOADS-MILLER AUTOMATIC SIPHON

Special Design for Shallow Depths

No Moving Parts. No Small Pipes



See prices and dimensions on preceding page.

MILLER 4-INCH STANDARD SEWAGE SIPHON

For Automatic Sewage Disposal

The treatment of sewage from private residences, clubs, institutions, etc., should be secured with the least possible complication. When conditions are favorable, sub-soil irrigation is probably the best method to use; it is economical, efficient and requires the least attention. The size of the settling tank, dosing tank and the number of feet of drain tile required will depend upon the quantity of sewage and character of the soil in the disposal field. Domestic sewage can be computed at from 30 to 50 gallons per capita per day. The settling tank should be large enough to contain from 12 to 24 hours' flow. The size and drawing depth of the siphon will depend upon the fall available and quantity of sewage treated.

A 4-inch siphon is suitable for not to exceed forty adults.

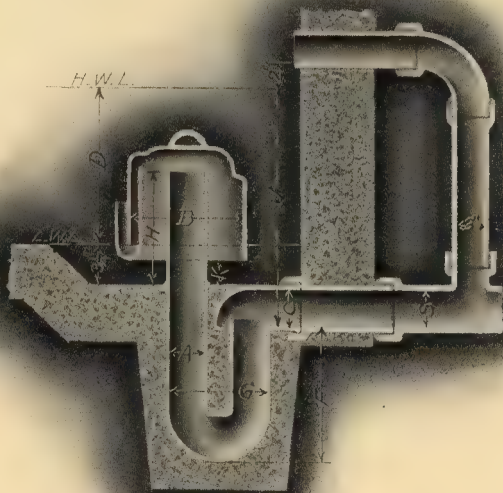


TABLE OF DIMENSIONS

Diameter of siphon.....	A	4 in.	Width of trap.....	G	12 in.
Diameter of bell.....	B	12 in.	Height above floor.....	H	11 3/4 in.
Diameter of discharge head..	C	4 in.	Clearance under bell.....	K	2 in.
Drawing depth.....	D	17 in.	Diameter of carrier.....	S	4-6 in.
Depth of trap.....	F	13 in.	Invert to discharge line...	J	25 3/4 in.

Average discharge in cubic feet per second, .37

Price f. o. b. Pacific Coast terminals, \$35.00

If interested send for booklet, *Automatic Sewage Disposal Apparatus*

ASPHALTIC COMPOUNDS FOR MAKING WATER-TIGHT JOINTS IN VITRIFIED PIPE SEWERS

Engineers familiar with sewer construction are aware of the difficulty in making water-tight joints with cement, even when laid under the most favorable conditions. Cement joints may fail where pipe are laid in ground that is liable to settle, or where roots of trees seeking moisture grow into and through the cement and frequently obstruct the sewer. Where pipe are laid in water, it is extremely difficult to keep cement in the joints until it has sufficiently set.

Leaky sewers are always a source of trouble and annoyance, and if pumping or treatment plants are part of the system, much money is wasted in pumping or treating exterior water that should be excluded from the system. Asphaltic compounds of special grade, ranging from twenty-five to thirty-five in penetration, are non-porous, flexible, and adhesive, prevent external leakage, and are readily applied, as they melt at a comparatively low temperature, pour in a thin liquid, cool and set quickly, allowing the removal of the forms within a few minutes, thus insuring the rapid progress of the work. S. P. C. Pipe Seal Compound made by the Paraffine Companies, Inc., 34 First Street, San Francisco, and Petrolastic Cement XX made by the Standard Oil Company of California are sold for this class of work.

Asphaltic compounds of the above penetration weigh approximately seventy pounds per cubic foot, and it requires about the following pounds for making a joint $1\frac{1}{2}$ inches deep on each length of the following sizes of vitrified pipe:

	POUNDS		POUNDS
6-inch Standard.....	.96	16-inch Standard.....	3.12
8-inch Standard.....	1.25	18-inch Standard.....	3.54
10-inch Standard.....	1.50	20-inch Standard.....	4.00
12-inch Standard.....	2.42	22-inch Standard.....	4.32
14-inch Standard.....	2.65	24-inch Standard.....	5.00
15-inch Double Standard...	2.92	24-inch Double Standard....	5.0
18-inch Double Standard...	3.54	27-inch Double Standard....	8.0
21-inch Double Standard...	4.1	30-inch Double Standard....	15.5

Six-inch pipe is made in two-foot, the larger sizes in two-and-one-half-foot lengths. Using this table as a basis, and making due allowance for waste, the quantity required can readily be computed. Further information furnished upon request.

LAUNDRY TRAYS AND SINKS

These are made of selected clays and glazed in light buff. They are seamless, clean, non-absorbent, and more durable than iron.

QUALITY CLASSIFICATION

"A" QUALITY: This does not mean perfection. None of our Laundry Trays or Sinks are absolutely free from blemishes, and we do not guarantee them to be so.

Wares slightly warped or having faint green or brown spots on their interior or exterior surfaces, or slight fire cracks on the exterior below the rim, but not on the rim or interior surface, are classified as "A" quality.

"B" QUALITY: More latitude is given in the selection of this quality. This grade is absolutely sanitary, although on any part of the inside or outside surfaces there may be small fire cracks, green or brown spots, or the ware may be slightly twisted or warped, but not sufficiently to impair its usefulness. Kiln sand may have fallen on the ware during the process of firing, but before shipment this is polished off so as not to destroy the glaze. This grade is classed as "B" quality.



THE "PLACER" ROLL RIM TRAY No. 1004

This Tray is glazed on both ends and is supported on two legs. Length outside, 24 inches; width outside, 22 inches; depth inside, 14 inches; height from floor to top at back, 32 inches. Average shipping weight, one tray with fittings, 200 lbs.

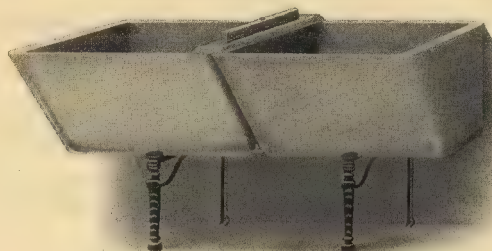
Price of one tray without fittings:

"A" quality, \$15.00; "B" quality, \$11.00; "C" quality, \$7.50; "D" quality, \$5.00.	
Two Painted Iron Legs with Bar	} \$5.00
1¼-inch Nickel-plated Coupling with Rubber Stopper	

Crates and packing, \$1.00 each; 75 cents rebate for empty crates returned with charges prepaid.

This tray may also be had in sets of two or more,

LAUNDRY TRAYS



THE "PLACER" FLAT-RIM TRAY No. 1005

Length outside, one tray, 25 inches; width outside, 23 inches; depth inside, 14 inches; height from floor to top at back, 32 inches.

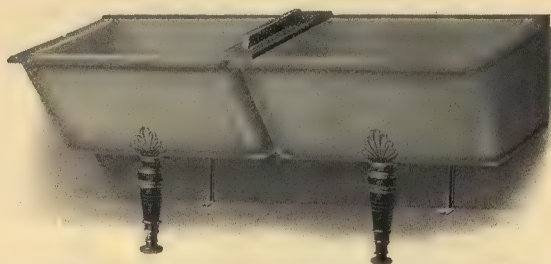
Average shipping weight, one tray with fittings, 210 lbs.

Price of one tray without fittings:

"A" quality, \$15.00; "B" quality, \$11.00; "C" quality, \$7.50; "D" quality, \$5.00.

For each tray when ordered in sets of two or more:

Pine Wringer Attachment with Bolt	}	\$4.50
Painted Iron Leg with Bar		
1½-inch Nickel-plated Coupling with Rubber Stopper.		



THE "LINCOLN" ROLL-RIM TRAY No. 1015

Length outside, one tray, 28 inches; width outside, 25 inches; depth inside, 15 inches; height from floor to top at back, 33 inches.

Average shipping weight, one tray with fittings, 275 lbs.

Price of one tray without fittings:

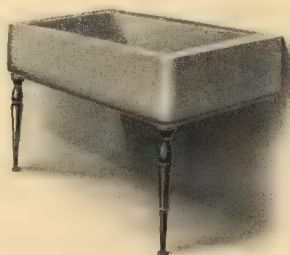
"A" quality, \$17.50; "B" quality, \$12.50; "C" quality, \$8.50; "D" quality, \$6.00.

For each tray when ordered in sets of two or more:

Ash Wringer Attachment with Bolt	}	\$7.50
Painted Iron Leg with Bar		
1½-inch Nickel-plated Coupling with Rubber Stopper.		

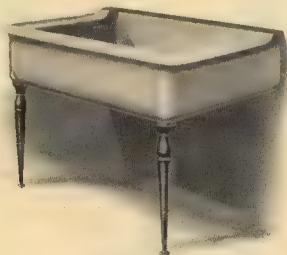
Crates and packing, \$1.00 each; 75 cents rebate for empty crates returned with charges prepaid.

"LINCOLN" FLAT RIM SINK No. 1020



Size	Length Outside Inches	Width Outside Inches	Depth Inside Inches	Price Each Without Fittings* "A" Quality	Price Each Without Fittings* "B" Quality	Price Each Without Fittings* "C" Quality	Price Each Without Fittings* "D" Quality
1	30	20	7	\$11.00	\$8.00	\$6.00	\$4.00
2	36	23	7	13.50	9.50	7.00	5.00

"LINCOLN" ROLL RIM SINK No. 1030



Size	Length Outside Inches	Width Outside Inches	Depth Inside Inches	Price Each Without Fittings* "A" Quality	Price Each Without Fittings* "B" Quality	Price Each Without Fittings* "C" Quality	Price Each Without Fittings* "D" Quality
1	31	21	7	\$12.50	\$ 9.00	\$6.50	\$4.50
2	37	23	7	15.00	10.50	7.50	5.50

*Painted iron legs and brackets with 2-inch nickel-plated strainer and coupling for one sink of either number or size, \$9.00.

Crates and packing, \$1.00 each; 75 cents rebate for empty crates returned.

Average shipping weight, fittings included; Size 1, 250 lbs.; Size 2, 300 lbs.

SPECIAL SINKS

We will make to order Sinks of special size and shape for use in Schools and Laboratories. These are made of the same selected clays as our stock laundry ware and are glazed in a light buff. They are seamless, clean, non-absorbent and acid-proof.

We carry in stock a number of moulds for special sinks, blueprints of which will be furnished upon request. Where special moulds are necessary an extra charge will be made.

ROUGHING IN MEASUREMENTS OF LAUNDRY TRAYS

Distance center to center of outlet holes:

Placer Flat Rim Trays, 2-part.....	10 inches
Placer Flat Rim Trays, 3-part.....	26 inches
Placer Roll Rim Trays, 2-part.....	11½ inches
Placer Roll Rim Trays, 3-part.....	25½ inches

Length over all: Placer Flat Rim Trays, 2-part.....	52 inches
Placer Roll Rim Trays, 2-part.....	49 inches

Height from floor to bottom of outside of Placer Tray.....	17 inches
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TWO-PART LINCOLN ROLL-RIM TRAY NO. 1015

Distance center to center of outlet holes.....	29 inches
Length over all.....	57 inches
Height from floor to outside of tray.....	15½ inches
Height from floor to top of tray at back.....	33 inches

THREE-PART LINCOLN ROLL-RIM TRAY NO. 1015

Distance center to center of outlet holes.....	29 inches
Length over all.....	85¾ inches
Height from floor to outside of tray.....	15½ inches
Height from floor to top of tray at back.....	33 inches

All outlets on right-hand end of Roll Rim Tray.

Outlets of Placer Trays at left- and right-hand ends.

Measurements of Faucet Holes

Distance between center of holes.....	15 inches
Distance between center of hole and top of tray.....	2½ inches
Diameter of holes.....	1½ inches
Price of faucet holes.....	\$0.50 each, net

FIRE CLAY THIMBLES

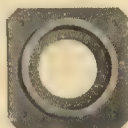
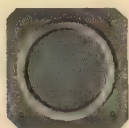


PRICE LIST

Diameter Inside, Inches	4 Inches Long	6 Inches Long	8 Inches Long	10 Inches Long	12 Inches Long
4 inches	\$0.20	\$0.30	\$0.40	.....	.....
5 inches	.30	.40	.50	\$0.60	\$0.70
6 inches	.40	.50	.60	.70	.80
7 inches	.50	.60	.70	.80	.90
8 inches	.60	.70	.80	.90	1.00
10 inches	.80	.90	1.00	1.10	1.20

Made $\frac{1}{4}$ -inch larger than diameters given to receive metal stove pipe.

FIRE CLAY STARTING PLATES



10 x 10-inch, for supporting 5-inch chimney pipe, with hole or solid..... \$0.60

12 x 12-inch, for supporting 6-inch chimney pipe, with hole or solid..... .75

14 x 14-inch, for supporting 8-inch chimney pipe, with hole or solid..... 1.00

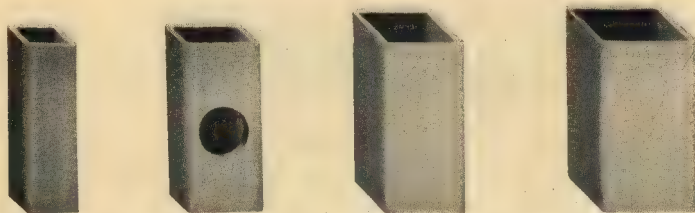
FIRE CLAY BONNET TOPS



Diameter Inside	Height	Price	Weight
5 inches	3½ feet	\$2.25	65 lbs.
6 inches	3½ feet	3.00	85 lbs.
8 inches	3½ feet	3.75	105 lbs.

Crates and packing extra.

FIRE CLAY FLUE LININGS



The brick smoke flues of the better class of buildings now erected are lined with terra-cotta flue linings. City and town ordinances invariably exact their use.

Our linings, which are made of the best specially prepared fire clay, make a smooth, continuous flue throughout. This improves the draught.

When set in place they have but one horizontal mortar joint every two feet.

They do not decay, crack or burn out, nor accumulate soot; are non-conductors of heat, and obviate the danger of *defective flues*, which cause the majority of fires.

PRICE LIST

Dimensions Outside Inches	Dimensions Inside Inches	Price per Foot	Thick- ness Inches	Length Feet	Weight Foot Pounds
$4\frac{1}{2} \times 8\frac{1}{2}$	3 x 7	\$0.35	$\frac{3}{4}$	2	14
$4\frac{1}{2} \times 13$	3 x $11\frac{1}{2}$	.45	$\frac{3}{4}$	2	18
$4\frac{1}{2} \times 17$	$2\frac{1}{2} \times 15$	.70	1	2	28
$8\frac{1}{2} \times 8\frac{1}{2}$	7 x 7	.45	$\frac{3}{4}$	2	20
$8\frac{1}{2} \times 13$	7 x $11\frac{1}{2}$	.65	$\frac{3}{4}$	2	28
$8\frac{1}{2} \times 17$	$6\frac{1}{2} \times 15$	.85	1	2	37
13 x 13	11 x 11	1.00	1	2	38
13 x 17	11 x 15	1.25	1	2	48
17 x 17	$14\frac{3}{4} \times 14\frac{3}{4}$	1.75	$1\frac{1}{8}$	2	58
13 x 21	$10\frac{3}{4} \times 18\frac{3}{4}$	1.75	$1\frac{1}{8}$	2	58

A charge of one foot additional is made for inlets.

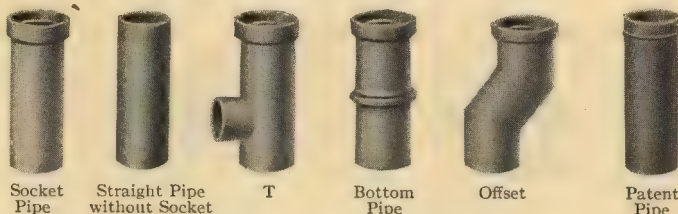
FIRE CLAY FLUES FOR GAS STOVES

PRICE LIST

Size Outside Inches	Size Inside Inches	Price per Foot	12" Long Single Ts Each	12" Long Double Ts Elbows Offsets	Thick- ness Inch	Length Feet	Weight Foot Pounds
$2\frac{3}{4} \times 6$	$1\frac{1}{2} \times 4\frac{3}{4}$	\$0.20	\$0.60	\$1.00	$\frac{5}{8}$	$1\frac{1}{2}$	8
$2\frac{7}{8} \times 7\frac{5}{8}$	$1\frac{5}{8} \times 6\frac{3}{8}$	.25	.75	1.25	$\frac{5}{8}$	$1\frac{1}{2}$	9

For mixed minimum carloads, see footnote page 10.

FIRE CLAY CHIMNEY PIPE



PRICE LIST—SOCKET PIPE

Made in 2-foot lengths

Diameter Inside Inches	Price per Foot	Ts 24" Long Each	Ts 12" Long Each	Bottom Pipe Each	Offsets Each	Thickness Inches	Weight Foot Pounds
5	\$0.35	\$1.40	\$1.05	\$1.40	\$1.75	1	17
6	.40	1.60	1.20	1.60	2.00	1	21
8	.55	2.20	1.65	2.20	2.75	1	27
10	.75	3.00	Not made above 8 inches			1 1/8	35
12	1.00	4.00				1 1/4	46

PRICE LIST—PATENT PIPE

Made in 2 1/2-foot lengths

Diameter Inside Inches	Price per Foot	Patent Ts Each	Thickness Inches	Weight Foot Pounds
6	\$0.40	16 inches long \$1.40	1	20
7	.45	17 inches long 1.60	1	21
8	.55	18 inches long 2.00	1	24
10	.75	24 inches long 3.00	1 1/8	32
12	1.00	24 inches long 4.00	1 1/4	38
14	1.20	24 inches long 4.80	1 1/4	44
16	1.50	24 inches long 6.00	1 3/8	54

All our "Ts" are made with inlets of the following inside diameters and lengths:

5-inch pipe. Inlets	5-inch diameter.	4, 6, 8 and 12 inches long
6-inch pipe. Inlets	6-inch diameter.	4, 6, 8 and 12 inches long
7-inch pipe. Inlets	7-inch diameter.	4, 6, 8 and 12 inches long
8-inch pipe. Inlets	8-inch diameter.	4, 6, 8 and 12 inches long
10-inch pipe. Inlets	10-inch diameter.	4, 6, 8 and 12 inches long
12-inch pipe. Inlets	12-inch diameter.	4, 6, 8 and 12 inches long

Double "Ts" are not desirable, therefore are not carried in stock. Use instead two single "Ts," each one foot in length.

We carry in stock 6- and 8-inch Fire Clay Chimney Pipe in 3- and 4-foot lengths; frequently used with our Fire Clay Chimney Caps for topping brick chimneys. For mixed minimum carloads, see footnote page 10.

FIRE CLAY CHIMNEY CAPS

PRICE LIST

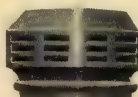


No. 21— 5-inch.....\$1.75	10 lbs.	No. 33— 5-inch.....\$2.00	19 lbs.
No. 22— 6-inch..... 2.00	14 lbs.	No. 34— 6-inch..... 2.25	24 lbs.
No. 30— 7-inch..... 2.50	20 lbs.	No. 60— 7-inch..... 3.00	43 lbs.
No. 23— 8-inch..... 3.00	18 lbs.	No. 35— 8-inch..... 3.50	35 lbs.
No. 24—10-inch..... 3.50	39 lbs.	No. 50—10-inch..... 4.00	63 lbs.
No. 25—12-inch..... 4.00	70 lbs.	No. 51—12-inch..... 4.50	114 lbs.



No. 18—5-inch.....\$2.00	18 lbs.	No. 36—5-inch.....\$2.50	17 lbs.
No. 19—6-inch..... 2.50	26 lbs.	No. 37—6-inch..... 3.00	23 lbs.
No. 20—8-inch..... 3.00	35 lbs.	No. 38—8-inch..... 3.50	39 lbs.

These caps are used with our Fire Clay Chimney Pipe and Patent Pipe.



This type of cap will help a poor draught if placed on top of the flue lining, which should extend about 8 inches above the top of a brick chimney.

No. 40.....\$3.00	Use with 8½ x 8½-inch Flue Lining.	33 lbs.
No. 41..... 3.50	Use with 8½ x 13 -inch Flue Lining.	39 lbs.
No. 42..... 4.00	Use with 8½ x 17 -inch Flue Lining.	54 lbs.
No. 43..... 4.50	Use with 13 x 13 -inch Flue Lining.	54 lbs.
No. 44..... 5.00	Use with 13 x 17 -inch Flue Lining.	60 lbs.
No. 45..... 5.50	Use with 17 x 17 -inch Flue Lining.	65 lbs.

These caps are used with our Fire Clay Flue Linings.

Crates and packing extra.

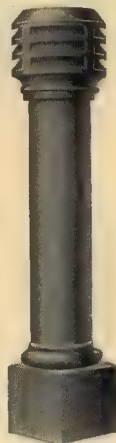
FIRE CLAY CHIMNEY TOPS



140



142



143



141

PRICE LIST

Number	Price	Height Feet	Outside at Base Inches	Inside at Base Inches	Inside at Top Inches	Weight Pounds
140	\$6.00	4	11 x 11	9 x 9	6	100
141	7.50	4	12½ x 12½	10½ x 10½	8	125
142	8.00	5½	11 x 11	9 x 9	6	120
143	9.50	5½	12½ x 12½	10½ x 10½	8	160

Crates and packing extra.

FIRE CLAY CHIMNEY TOPS



165



166



167



168



137



138



139



136

PRICE LIST

Number	Price	Height Feet	Outside at Base Inches	Inside at Base Inches	Inside at Top Inches	Weight Pounds
165	\$6.00	3 $\frac{1}{4}$	12	10	6	80
166	7.00	3 $\frac{1}{4}$	12	10	6	90
167	7.00	3 $\frac{1}{4}$	12	10	6	85
168	8.00	3 $\frac{3}{4}$	12	10	6	85
136	9.00	4 $\frac{1}{2}$	14	12	8	130
137	8.00	4	14	12	8	110
138	8.50	4	14	12	8	125
139	8.50	4	14	12	8	130

Crates and packing extra.

FIRE CLAY CHIMNEY TOPS



170



173



172



148



149



151



150

PRICE LIST

Number	Price	Height Feet	Outside at Base Inches	Inside at Base Inches	Inside at Top Inches	Weight Pounds
148	\$ 8.00	3	12 x 12	10 x 10	7 x 7	100
149	10.00	4	12 x 12	10 x 10	7 x 7	115
150	8.00	3	13 x 13	11 x 11	8	100
151	10.00	3 $\frac{3}{4}$	15 x 15	12 $\frac{1}{2}$ x 12 $\frac{1}{2}$	10	140
170	8.00	2	16 x 16	14 x 14	8 x 8	75
172	10.00	1 $\frac{3}{4}$	22 x 22	20 x 20	12 x 12	125
173	10.00	3 $\frac{1}{4}$	13 $\frac{1}{2}$ dia.	11 dia.	9 $\frac{1}{2}$ dia.	135

Crates and packing extra.

FIRE CLAY CHIMNEY TOPS



175 to 178



179 to 182

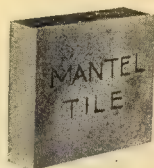
PRICE LIST

Number	Price	Height Feet	Outside at Base Inches	Inside at Base Inches	Inside at Top Inches	Weight Pounds
175	\$10.00	4	12½ x 12½	10½ x 10½	7 x 7	120
176	12.00	4	12½ x 17	10½ x 15	7 x 11½	150
177	14.00	4	12½ x 21	10½ x 19	7 x 15½	190
178	16.00	4	17 x 17	15 x 15	11½ x 11½	195
179	12.00	5	12½ x 12½	10½ x 10½	7 x 7	155
180	14.00	5	12½ x 17	10½ x 15	7 x 11½	190
181	16.00	5	12½ x 21	10½ x 19	7 x 15½	225
182	18.00	5	17 x 17	15 x 15	11½ x 11½	235

Crates and packing extra.

The tops on this page are of the same design, but vary in dimensions and will fit brick flues from 8½ x 8½ to 17 x 17 inches; they are also used with the Fire Clay Flue Linings listed on page 24.

MANTEL TILE



These can be furnished in standard finish, mottled, buff and brown; also in mottled green and brown salt glazed, in the following sizes:

6 x 6 x 2-inch,	\$0.20 each.....	Weight, 5 lbs.
8 x 8 x 2-inch,	.35 each.....	Weight, 8 lbs.
10 x 10 x 2-inch,	.50 each.....	Weight, 13 lbs.
12 x 12 x 2-inch,	.75 each.....	Weight, 19 lbs.

ENAMELED TILE

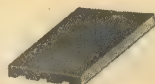
These Tile can be furnished in a great variety of shades of plain and mottled enamels in the following sizes:

1 $\frac{3}{4}$ x 1 $\frac{3}{4}$ x 1	-inch, \$0.04 each.....	Weight, $\frac{1}{4}$ lb.
2 $\frac{3}{4}$ x 2 $\frac{3}{4}$ x 1	-inch, .08 each.....	Weight, $\frac{1}{2}$ lb.
4 x 4 x 1	-inch, .15 each.....	Weight, 1 lb.
6 x 6 x 1 $\frac{3}{4}$ -inch,	.30 each.....	Weight, 2 $\frac{1}{4}$ lbs.
8 x 8 x 1 $\frac{3}{4}$ -inch,	.50 each.....	Weight, 5 $\frac{1}{2}$ lbs.

The above sizes are designed for use as insert tile, for floors and for wainscot and trim, as well as for face and hearth of mantels.

PROMENADE TILE

These are extensively used for roofing the better class of fire-proof buildings; also for loggia and terrace flooring, fireplace hearths and facings; they are also suitable for various purposes where uniformity is not essential.



Owing to their variation in size, they should be laid with not less than half-inch mortar joints.

We can furnish them, within a reasonable time after ordered, in red, grays and dark buffs, in standard finish; also vitreous salt glazed.

6 x 6 x 1-inch,	\$75.00—1000.....	Weight, 2300 lbs.
9 x 6 x 1-inch,	90.00—1000.....	Weight, 3450 lbs.

PADRE TILE

These Tile are hand-pressed and made in old-rose shades, and are very successfully used in flooring patios, sun-porches, terraces and garden walks. This type of Tile contributed greatly to the charm of the Old Missions and are made in the following sizes:

8 x 12 x 2-inch,	\$0.35 each.....	Weight, 13 lbs.
7 $\frac{1}{2}$ x 13 $\frac{1}{2}$ x 2-inch,	.45 each.....	Weight, 12 lbs.
8 x 14 $\frac{1}{2}$ x 2-inch,	.50 each.....	Weight, 16 lbs.
13 $\frac{1}{2}$ x 13 $\frac{1}{2}$ x 2-inch,	.75 each.....	Weight, 24 lbs.

Crates and packing extra.

FIRE BRICK

Standard shapes carried in stock, other sizes made to order.



36-INCH CIRCLE

$9 \times 7\frac{1}{4} \times 4\frac{1}{2} \times 2\frac{1}{2}$ inches

For number of this shape required for various circles, see table on page 37.



48-INCH CIRCLE

$9 \times 7\frac{5}{8} \times 4\frac{1}{2} \times 2\frac{1}{2}$ inches

For number of this shape required for various circles, see table on page 37.



60-INCH CIRCLE

$9 \times 7\frac{7}{8} \times 4\frac{1}{2} \times 2\frac{1}{2}$ inches.

For number of this shape required for various circles, see table on page 37.

GENERAL INFORMATION ABOUT FIRE BRICK

Dampness is ruinous to Fire Brick; keep them in a dry place.

New furnaces should be heated up slowly to expel moisture; sudden increase in temperature is injurious to Fire Brick.

In taking boilers off for repairs or cleaning, do not throw the doors wide open, permitting cold air drafts to strike the hot brick work; this will reduce the life of Fire Brick about one-half.

Fire Brick and Clay can be shipped in minimum mixed carloads of 40,000 lbs. Straight Fire Brick weigh about 7 lbs. each.

Fire Brick when shipped in less than carloads must be crated.

Approximately 350 lbs. Lincoln Fire Clay is sufficient to lay 1000 Fire Brick. This should be finely ground, mixed with water and applied thin and the brick rubbed into place, leaving only sufficient clay between them to fill the voids.

Crates and packing extra.

LINCOLN FIRE CLAY

Carloads, crude in bulk, per ton.

Carloads, finely ground, in sacks, per ton.

Less than carloads, per sack of 200 lbs.

LINCOLN FIRE BRICK DUST

Carloads, in sacks, per ton.

Less than carloads, per sack of 200 lbs.

When requesting prices give quantity and place of delivery.

BOILER AND FURNACE FIRE TILE SHAPES



We desire to call the attention of our patrons to our long experience in the manufacture of special Fire Tile shapes and to our splendid facilities for executing orders of this character from your drawings.

When requesting prices, give quantity and place of delivery.



Dimensions Inches	Price Each	Weight Pounds	Dimensions Inches	Price Each	Weight Pounds
12 x 6 x 2	\$0.20	9½	18 x 6 x 2	\$0.35	14
12 x 10 x 2	.35	15½	18 x 18 x 2	.95	42
12 x 12 x 2	.40	19	24 x 12 x 3	1.25	55
15 x 12 x 2	.50	23	28 x 12 x 3	1.50	64
18 x 12 x 2	.60	28	20 x 15 x 3	1.35	58
24 x 12 x 2	.80	37	24 x 15 x 3	1.50	69
14 x 6 x 2	.25	11½	28 x 15 x 3	1.80	80
14 x 14 x 2	.55	25	30 x 15 x 3	2.25	87
16 x 6 x 2	.30	12½	36 x 15 x 3	2.50	104
16 x 16 x 2	.75	33	.....	....	...



Dimensions Inches	Price Each	Weight Pounds	Dimensions Inches	Price Each	Weight Pounds
24 x 12 x 3	\$1.50	55	28 x 15 x 3	\$2.00	80
28 x 12 x 3	1.75	64	30 x 15 x 3	2.50	87
24 x 15 x 3	1.75	69	36 x 15 x 3	2.75	104

Crates and packing extra.

***ARCH FIRE BRICK**
NUMBER REQUIRED FOR VARIOUS CIRCLES

Inside Diameter	No. 3 Arch 9x4 1/2x2 1/2x1"	No. 2 Arch 9x4 1/2x2 1/2x1 3/4"	No. 1 Arch 9x4 1/2x2 1/2x2 1/8"	Straight Brick 9x4 1/2x2 1/2"	Total
1' 2"	29	..	..	..	29
1' 6"	18	16	..	..	34
1' 9"	..	38	..	..	38
2' 0"	..	31	10	..	41
2' 6"	..	25	24	..	49
3' 0"	56	..	56
3' 6"	56	7	63
4' 0"	56	15	71
4' 6"	56	22	78
5' 0"	56	30	86
5' 6"	56	37	93
6' 0"	56	45	101
6' 6"	56	52	108
7' 0"	56	60	116
7' 6"	56	67	123
8' 0"	56	75	131
8' 6"	56	82	138
9' 0"	56	90	146
9' 6"	56	97	153
10' 0"	56	105	161

Arch Brick makes a lining 4 1/2 inches thick

***WEDGE FIRE BRICK**
NUMBER REQUIRED FOR VARIOUS CIRCLES

Inside Diameter	No. 2 Wedge 9x4 1/2x2 1/2x1 1/2"	No. 1 Wedge 9x4 1/2x2 1/2x1 1/8"	Straight Brick 9x4 1/2x2 1/2"	Total
2' 3"	57	..	..	57
2' 6"	51	9	..	60
3' 0"	46	22	..	68
3' 6"	39	36	..	75
4' 0"	31	52	..	83
4' 6"	21	69	..	90
5' 0"	16	82	..	98
5' 6"	5	100	..	105
6' 0"	..	113	..	113
6' 6"	..	113	7	120
7' 0"	..	113	15	128
7' 6"	..	113	22	135
8' 0"	..	113	30	143
8' 6"	..	113	37	150
9' 0"	..	113	45	158
9' 6"	..	113	52	165
10' 0"	..	113	60	173

Wedge Brick makes a lining 9 inches thick

*For circles greater than 10' 0", in either of the above tables, add 15 straight brick for each additional foot in diameter.

KEY FIRE BRICK

NUMBER REQUIRED FOR VARIOUS CIRCLES

Inside Diameter	No. 3 Key 9x4½x2½x3"	No. 2 Key 9x4½x2½x3½"	No. 1 Key 9x4½x2½x4"	Straight Brick 9x4½x2½"	Total
3' 0"	38	..	..	..	38
3' 6"	29	13	..	..	42
4' 0"	21	25	..	..	46
4' 6"	12	38	..	..	50
5' 0"	5	49	..	..	54
5' 3"	..	57	..	..	57
5' 6"	..	54	4	..	58
6' 0"	..	50	12	..	62
6' 6"	..	46	21	..	67
7' 0"	..	42	29	..	71
7' 6"	..	38	37	..	75
8' 0"	..	34	45	..	79
8' 6"	..	29	54	..	83
9' 0"	..	25	63	..	88
9' 6"	..	21	71	..	92
10' 0"	..	17	79	..	96
10' 6"	..	13	87	..	100
11' 0"	..	9	95	..	104
11' 6"	..	4	104	..	108
12' 0"	113	..	113
13' 0"	113	9	122
14' 0"	113	17	130
15' 0"	113	25	138
16' 0"	113	34	147
17' 0"	113	42	155
18' 0"	113	50	163
19' 0"	113	59	172
20' 0"	113	67	180

Key Brick makes a lining 9 inches thick.

CIRCLE FIRE BRICK

NUMBER REQUIRED FOR VARIOUS CIRCLES

Inside Diameter	36-Inch Circle 9x7¼x4½x2½"	48-Inch Circle 9x7½x4½x2½"	60-Inch Circle 9x7½x4½x2½"	Total
3' 0"	16	..	..	16
3' 3"	11	6	..	17
3' 6"	7	11	..	18
3' 9"	3	16	..	19
4' 0"	..	20	..	20
4' 3"	..	14	7	21
4' 6"	..	9	13	22
4' 9"	..	4	19	23
5' 0"	..	..	24	24

Circle Brick makes a lining 4½ inches thick.

FACE BRICK

STANDARD FACE BRICK: Size, $8\frac{1}{4} \times 4 \times 2\frac{3}{8}$ inches. We carry this size in stock.

COLOR AND FINISH: Our Face Brick are made in several shades of gray, buff, brown and pink in smooth and ruffled finishes. Dark colors variegated in shade are considered the most artistic and durable, and are in the greatest demand.

Our "Granitex" and "Library Gray" Face Brick are a high grade coated brick and have been used on many prominent buildings.

MORTAR JOINTS AND BONDS: The customary mortar joints for exterior work are half an inch, but architects vary them from $\frac{1}{4}$ to $\frac{3}{4}$ of an inch. For the prevailing types of bonds and mortar joints, see pages 39-40. The kind of joint and color of the mortar should be carefully considered to obtain the desired result in color and texture of the wall.

SPECIAL BRICK: Orders for special sizes or colors, should be placed 8 to 10 weeks before required.

MANTEL BRICK: For selecting, add \$5.00 per 1000 to our prices. For brick mantel designs send for our booklet.

CRATES AND PACKING: Face Brick, when shipped by rail or water in less than carloads at the L. C. L. rate, must be crated.

We make a net charge of \$3.00 per 1000 for packing and 75 cents each for crates, with a rebate of 75 cents each for empties returned to us in good condition, with all charges prepaid. Railroad companies will return empties at 15 per cent of the tariff.

The crated weight of 1000, $8\frac{1}{4} \times 4 \times 2\frac{3}{8}$ inches, will not exceed 7000 lbs.; ship's measurement is about 20 per cent less. Twenty-five crates are required for packing 1000 standard brick.

LESS THAN CARLOADS: When orders are not sufficient to make minimum carloads, considerable saving can be made by shipping even 2500 brick uncrated as a carload at the C. L. rate. The L. C. L. freight on brick is usually double the C. L. rate.

MINIMUM CARLOADS: 40,000 lbs.; $8\frac{1}{4} \times 4 \times 2\frac{3}{8}$ -inch Face Brick weigh 6 lbs., or 6700 to a carload.

INFORMATION: When asking for prices, give quantity, color, size and kind required; also time and place of delivery.

QUOTATIONS: Our quotations, unless otherwise specified, are based on shipping minimum carloads loose.

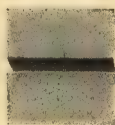
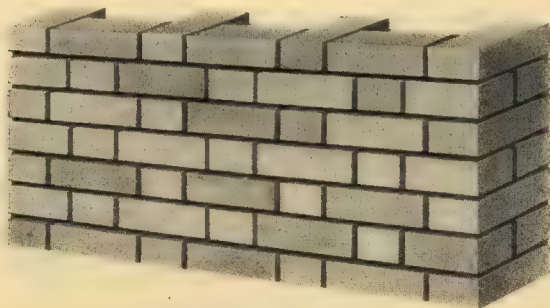
ABBREVIATIONS: C. L., carload; L. C. L., less than carload.

FACE BRICK

BONDS AND MORTAR JOINTS



American Bond. Finish, Horizontal "Ruffled"

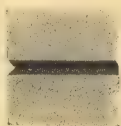
Rough-cut Flush
JointSmooth-cut Flush
JointV-shaped
Joint

Flemish Bond

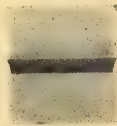
FACE BRICK
BONDS AND MORTAR JOINTS



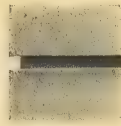
English Bond



Weathered
Joint



Struck
Joint



Smooth Raked
Joint



Dutch Bond

HOLLOW TILE FIREPROOFING

The advantages of tile construction for all types of buildings, both large and small, are very generally understood. Tile is a material that cannot burn; neither can dampness, climate, temperature nor age cause the slightest deterioration. Hollow-tile buildings are warmer in winter and cooler in summer.

Hollow-tile partitions are moisture-proof, also non-conductors of sound—both extremely important considerations in hotels, apartments, hospitals and office buildings.



5½-inch wide—1 cell

PARTITION TILE

2 x 5½ x 12 inches long.

3 x 5½ x 12 inches long.

4 x 5½ x 12 inches long.

6 x 5½ x 12 inches long.



12-inch wide—3 cell

PARTITION TILE

3 x 12 x 12 inches long.

4 x 12 x 12 inches long.

6 x 12 x 12 inches long.

8 x 12 x 12 inches long.



12-inch wide

FURRING TILE

1 x 12 x 12 inches long.

1½ x 12 x 12 inches long.

2 x 12 x 12 inches long.



12-inch wide—2 cell

BOOK TILE FOR VAULT CEILINGS
AND ROOFING

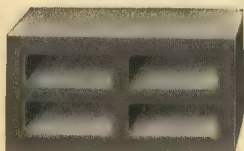
3 x 12 x 17¼ inches long

These are usually supported by 3 x 3-inch T iron on 18-inch centers.

Hollow Tile are also extensively used in construction of silos and lumber dry-kilns.

HOLLOW TILE BUILDING BLOCKS

Well-burned Hollow Fire Clay Blocks are strong, durable, and will make a fire-proof as well as a cool building for a warm climate, and weigh fully 60 per cent less than brick to the cubic foot, and can be set in place by any intelligent brick-mason.

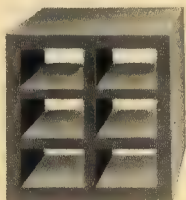


16-inch wide—4 cell

BUILDING BLOCKS

8 x 16 x 9 inches long.

8 x 7 $\frac{3}{4}$ x 9 inches long.



12-inch wide—6 cell

BUILDING BLOCKS

10 x 12 x 12 inches long.

12 x 12 x 12 inches long.

During the past ten years we have erected several factory buildings at our works, Lincoln, Cal., using in their construction the building blocks shown on this page, with suitable shapes for the lintels, sills and coping. One of these is a three-story building, 100 x 420 feet long, and during the hot summer days the temperature is at least ten degrees cooler than in our adjoining brick buildings.

Scale details showing various types of hollow building tile construction furnished on request.

Hollow Tile are also extensively used in the construction of silos and lumber dry-kilns.

TERRA-COTTA

The National Terra-Cotta Society, a bureau of service and information operating for the terra-cotta manufacturers of the United States, has for distribution to architects and engineers the following Brochure Series:

Volume I.—*The School.*

Volume II.—*The Theatre.*

Volume III.—*The Store.*

Volume IV.—*The Bank.*

Volume V.—*The Garage.*

Volume VI.—*Terra-Cotta Defined.*

Volumes I to V will be mailed free to those interested in the particular type of building mentioned, and Volume VI will be distributed free to all those interested.

These publications cover not only the technical and structural use of the material, but show, as well, examples of its application to buildings of various types.

Those desiring estimates should furnish elevations clearly showing the portion of the work to be terra-cotta, also plans and sections with figured dimensions, together with specifications stating color and finish required.

We manufacture Standard, Enameled and Polychrome Terra-Cotta in many different colors and finishes.

Estimates and samples furnished on request.

ROOFING TILE

COLOR AND FINISH: We manufacture Roofing Tile in unglazed russet browns, reds and buffs, in wide variation of shades; also in enamels, in shades to harmonize with color scheme of the building.

TRIMMINGS: We use Cordova Tiles for all hips and ridges, without the use of finals unless otherwise specified, but will make special trim of all kinds on order.

EAVE CLOSURES: We especially call attention to the clay blocks, which are frequently placed in the tile about three inches from the eaves to prevent birds from entering and building nests.

DURABILITY: A tile roof is leak-, moisture- and lightning-proof, also a nonconductor of heat or cold, and when properly constructed should last indefinitely without repairs. Only the best materials and skilled workman should be used in its construction.

METAL FLASHINGS: For permanency we recommend 16-oz. soft-rolled copper for flashings of chimneys, vertical walls and valleys, and 4-lb. lead for vent-pipe flashings and roof plates. The flashings in valleys should be not less than 20 inches wide, and roof plates 18 inches wide.

NAILS: We recommend the use of copper nails for the better class of buildings. We carry in stock special galvanized nails, which are very much superior to stock nails.

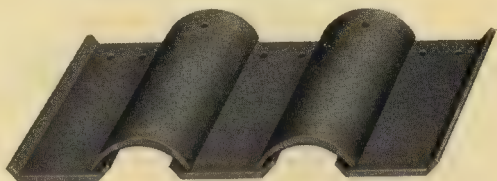
ROOFING FELT: Half-ply Malthoid, or equal, should be laid over the roof boards before the tile are set.

CONSTRUCTION SHEETS: Are furnished on request.

ESTIMATES: When asking for estimates, please furnish complete roof plans with specifications; also give shape and color of tile required. Owing to this class of work being frequently done by inexperienced workmen, we have found it necessary to include in our estimates the cost of laying as well as furnishing the tile.

ROOF PITCH: This must not be less than one-fifth, and from that to any desired pitch.

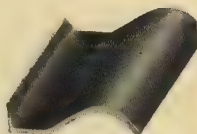
ROOFING TILE SHAPES



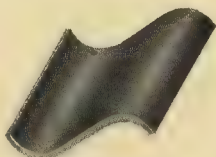
ITALIAN PAN TILE
With Cordova Tile Tops.



CORDOVA TILE
Made in three sizes:
Small, Medium, Large.



LINCOLN SPANISH



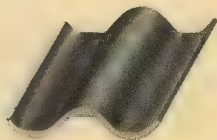
ESCALONA



ENGLISH BROAD PAN



SHINGLE



DUPLEX SPANISH

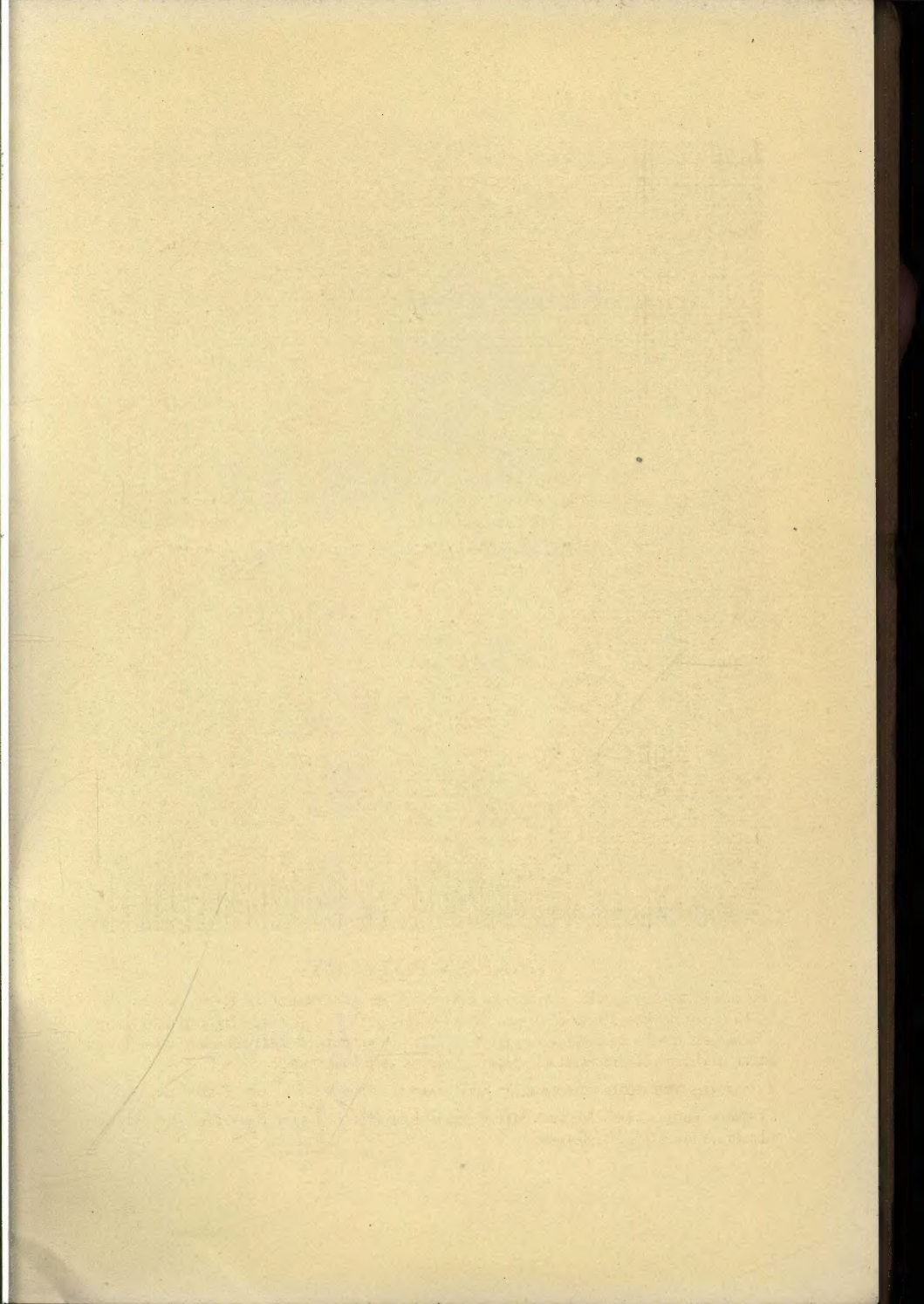


GARDEN POTTERY

We manufacture a great variety of Garden Furniture, such as Urns, Vases, Bird Baths, Fountains, Flower Boxes, Seats, Tables, Pedestals and Ornamental Pieces. These are made in a wide range of colors, in unglazed natural clay colors, dull glaze and high luster enamels. Special shapes made to order.

For prices and other information write for our Garden Pottery Bulletin.

Display rooms, 147 Minna Street, San Francisco, Twenty-second and Market Streets, Oakland, California.



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